

**PALOMAR COLLEGE**  
**COURSE OUTLINE OF RECORD FOR**  
**DEGREE CREDIT COURSE**

x Transfer Course x A.A. Degree applicable course  
(check all that apply)

**COURSE NUMBER AND TITLE:** CSIS 195 – Python Programming

**UNIT VALUE:** 3

**MINIMUM NUMBER OF SEMESTER HOURS:** 64

**BASIC SKILLS REQUIREMENTS:** Appropriate language and computational skills

**ENTRANCE REQUIREMENTS**

**PREREQUISITE:** None

**COREQUISITE:** None

**RECOMMENDED PREPARATION:** CSIS 137/ R CSIS 137

**SCOPE OF COURSE:**

This course develops basic competency in the Python programming language. It focuses on using Python to develop software for Internet applications, perform systems programming, and implement user interfaces. Topics of study include the fundamentals of the language, parallel system tools, system tools, graphical user interfaces, network scripting, client-side scripting, and server-side scripting. Also covered are databases and persistence, and data structures.

**SPECIFIC COURSE OBJECTIVES:** The successful student will be able to:

1. Understand the fundamentals of the Python programming language
2. Write syntactically and semantically correct Python programs
3. Utilize Python to write Internet and Client-side applications.
4. Understand how to integrate database information into a Python program.

## **CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:**

- I. System Tools
- II. Parallel System Tools
- III. Graphical User Interfaces
- IV. Network Scripting
- V. Client-Side Scripting
- VI. Server-Side Scripting
- VII. Internet Topics
- VIII. Databases and Persistence
- IX. Data Structures

## **REQUIRED READING:**

Lutz, Mark. *Programming Python*, 2nd Ed. Sebastopol, CA: O'Reilly & Associates, 2001  
ISBN: 0596000855

**SUGGESTED READING:** None

**REQUIRED WRITING:** None

## **OUTSIDE ASSIGNMENTS:**

**Students are expected to spend a minimum of three hours per unit per week in class and on outside assignments, prorated for short-term classes.**

Outside assignments will include completion of lab work, assigned readings from the text books, and homework problems.

## **INSTRUCTIONAL METHODOLOGY:**

**Check all that apply:**

- lecture  
 laboratory  
 lecture-laboratory combination  
 directed study

## **DISTANCE LEARNING:**

**This course may be offered as a distance learning course and meets Title 5 regulations 55370, 55372, 55374, 55376, 55378, and 55380.**

Yes  No

**If yes, check all that apply:**

- Television Course (Video one-way, e.g. ITV, video cassette, etc.)
- Online Course (Text one-way, e.g. newspaper, correspondence, electronic file, etc.)
- Two-Way Video Conferencing (Two-way interactive video and audio)
- One-Way Video Conferencing (One-way interactive video and two-way interactive audio)
- Computer Assisted Instruction (A specialized form of mediated instruction relying primarily on student access to information and prepared lessons or teaching materials through a computer terminal, but not under immediate supervision of a qualified instructor.)

**GRADING POLICY AND STANDARDS** (include methods of determining whether the stated objectives have been met by students):

70-100% Programming assignments  
0-30% Examinations

**IS COURSE REPEATABLE FOR REASON(S) OTHER THAN DEFICIENT GRADE?**

Yes  No  Number of times course may be taken for credit: \_\_\_\_\_

If yes, identify specific provision of Title 5 Division 2 section(s), 55761-55763 and 58161 which qualifies course as repeatable: 58161 (C) (2) (A)

**CONTACT PERSON:** Steve Perry x2219

**SIGNATURES:**

SIGNATURES ON FILE
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